

AMENDMENTS TO THE CLAIMS

1-53. (Canceled)

54. (Currently Amended) The method of claim ~~53~~61 wherein the first domain comprises the time domain, the second domain comprises the frequency domain, and the third domain comprises the cepstral domain.

55. (Currently Amended) The method of claim ~~53~~61 wherein said step of transforming the first and second plethysmographic signals from the first domain to the second domain comprises:

performing a Fourier transformation on the first plethysmographic signal in the first domain; and

performing a Fourier transformation on the second plethysmographic signal in the first domain.

56. (Previously Presented) The method of claim 55 wherein the Fourier transformations performed comprise fast Fourier transformations.

57. (Currently Amended) The method of claim ~~53~~61 wherein said step of transforming the first and second log transformed plethysmographic signals from the second domain to the third domain comprises:

performing a Fourier transformation on the first log transformed plethysmographic signal in the second domain; and

performing a Fourier transformation on the second log transformed plethysmographic signal in the second domain.

58. (Previously Presented) The method of claim 57 wherein the Fourier transformations performed comprise fast Fourier transformations.

59. (Canceled)